

## ABSTRACT

A process for producing a cycloolefin addition polymer in which one or more cycloolefin monomers can be (co)polymerized by addition polymerization with a small palladium catalyst amount to produce a cycloolefin addition (co)polymer while attaining high catalytic activity. The process for cycloolefin addition polymer production is characterized by addition-polymerizing one or more cycloolefin monomers comprising a cycloolefin compound represented by a specific formula in the presence of a multi-component catalyst comprising (a) a palladium compound and (b) a specific phosphorus compound.